

WHAT IS CLAIMED IS:

1. An inkjet ink set comprising at least two inks, wherein at least one ink contains a betaine compound and at least one other ink contains a nonionic surfactant.

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2. The inkjet ink set according to claim 1, wherein at least one of the betaine compound is a compound represented by the following formula (1):

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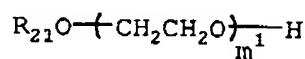


wherein R represents a hydrogen atom, an alkyl group, an aryl group or a heterocyclic group; L represents a di- or more valent linking group; M represents a hydrogen atom, an alkali metal atom, an ammonium group, a protonated organic amine or nitrogen-containing heterocyclic group or a quaternary ammonium ion group, provided that when p+r is 4, one of Ms is not present; q represents an integer of 1 or more; r represents an integer of 1 to 4; p represents an integer of 0 to 4; p+r is 3 or 4 and when p+r is 4, the N atom becomes an ammonium atom; when q is 2 or more, COOMs may be the same or different; when r is 2 or more, L-(COOM)<sub>q</sub>s may be the same or different; and when p is 2 or more, Rs may be the same or different.

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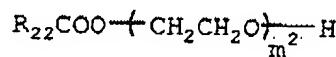
3. The inkjet ink set according to claim 1, wherein the nonionic surfactant is a compound represented by the following formula (2), (3) or (4):

5 Formula (2):



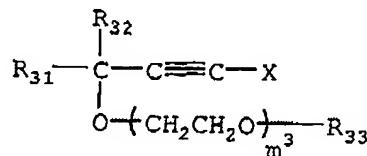
wherein  $R_{21}$  represents an alkyl group having from 5 to 40 carbon atoms and  $m^1$  represents an average addition molar 10 number of ethylene oxide and is a number of 2 to 40;

Formula (3):



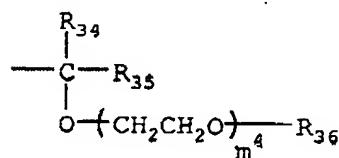
15 wherein  $R_{22}$  represents an alkyl group having from 5 to 40 carbon atoms and  $m^2$  represents an average addition molar number of ethylene oxide and is a number of 2 to 40;

Formula (4):



20 wherein  $R_{31}$  and  $R_{32}$  each independently represents an alkyl group having from 1 to 18 carbon atoms,  $R_{33}$  represents a

hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group and X represents a hydrogen atom or



5 , R<sub>34</sub> and R<sub>35</sub> each independently represents an alkyl group having from 1 to 18 carbon atoms, R<sub>36</sub> represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group, m<sup>3</sup> and m<sup>4</sup> each independently represents an average addition molar number of ethylene oxide, and m<sup>3</sup>+m<sup>4</sup>  
10 is from 0 to 100, provided that when m<sup>3</sup> is 0, R<sub>33</sub> represents a hydrogen atom, when m<sup>4</sup> is 0, R<sub>36</sub> represents a hydrogen atom, and when X is a hydrogen atom, m<sup>3</sup> is from 1 to 100.

4. The inkjet ink set according to claim 1, wherein  
15 at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

5. The inkjet ink set according to claim 2, wherein  
20 at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

6. The inkjet ink set according to claim 3, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

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7. The ink according to claim 1, wherein the betaine compound is a compound which has both of a cationic site and an anionic site in its molecule.

10 8. The ink according to claim 7, wherein the cationic site is selected from the group consisting of an aminic nitrogen atom, a nitrogen atom of a heteroaromatic ring, and a phosphoric atom, and the anionic site is selected from the group consisting of 15 a hydroxyl group, a thio group, a sulfonamido group, a sulfo group, a carboxyl group, an imido group, a phosphate group, and a phosphonate group.

9. The ink according to claim 1, wherein the dye has 20 an oxidation potential nobler than 1.0 V (vs. SCE).

10. The ink according to claim 1, wherein the dye has at least two heterocyclic groups.

25 11. The ink according to claim 10, wherein the

heterocyclic group is a 5-membered heterocyclic group or a 6-membered heterocyclic group in which hetero atom is at least one of N, O and S.

5        12. The ink according to claim 10, wherein the heterocyclic group contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings.

10       13. The ink according to claim 1, wherein at least one of the inks contains a phthalocyanine dye containing at least one of -SO-, -SO<sub>2</sub>-, -CO- and -CO<sub>2</sub>-.

14. An inkjet recording method, comprising recording  
15 an image in an inkjet printer by using the inkjet ink  
according to claim 1.

16. An inkjet recording method, comprising recording  
an image in an inkjet printer by using the inkjet ink  
20 according to claim 2.

16. An inkjet recording method, comprising recording  
an image in an inkjet printer by using the inkjet ink  
according to claim 3.